FIG. 1

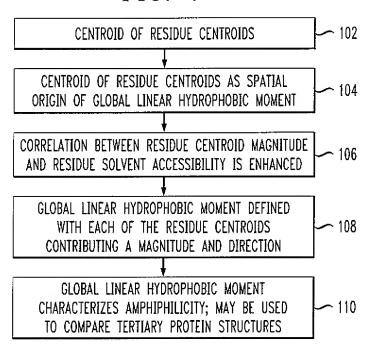
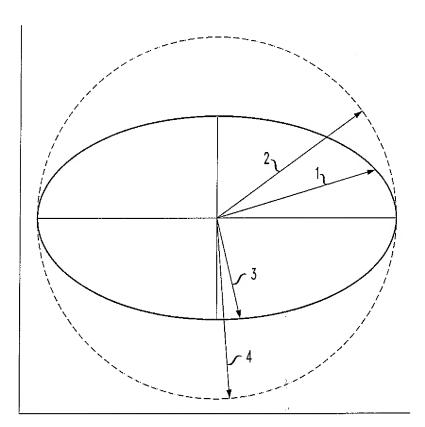


FIG. 2

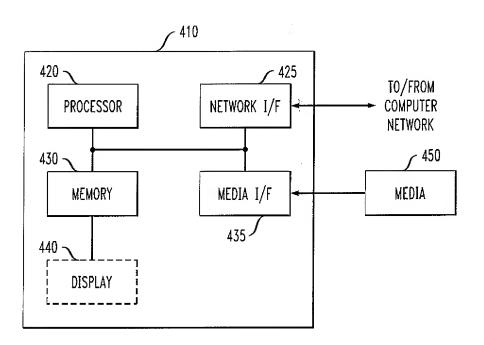


2/7 YOR920030162US1 REPLACEMENT SHEET

CORRELATION COEFFICIENTS OF ELLIPSOIDAL AND RADIAL DISTANCES WITH SOLVENT ACCESSIBILITIES

C e	1.39	1.93	1.77	1.75	1.60	1.59	1.63	i.40	1.31	1,31	2.55	1.48	1.25	1.78	1.69	2.41	1.89	1.52	1.39	1.61	i.45	1.38	1.31	1.73	2.09
7 e	1.03	1.70	i.58	1.58	1.28	1.33	1.39	1.1	1.21	1.22	2.48	i.40	1.17	1,63	1.60	2.23	1.48	1.19	Ξ	1.21	1.28	1.07	1.14	j.63	j.88
	0.644	0.566	0.685	0.657	0.686	0.677	0.703	0.712	0.735	0.719	0.455	0.534	0.726	0.623	0.641	0.473	0.481	0.612	0.620	0.524	0.674	0.535	0.667	0.559	0.487
7110700 17757	0.672	0.632	0.756	0.744	0.734	0.736	0.760	0.744	0.754	0.733	0.647	0.620	0.739	0.690	0.715	0.625	0.578	0.655	0.651	0.573	0.703	0.568	0.685	0.640	0.565
NUMBER	208	213	216	218	219	223	228	245	526	257	271	296	300	309	318	338	348	351	356	405	448	449	468	200	574
	1AUN	1LBU	1YAL	2ACT	1EUG	1AKZ	10DH	1TPH	166V	1BN1	2DRI	1AUA	1A3H	1LDM	1FSZ	1KFU	10BY	1A26	1CIN	1PHC	1GAI	186V	3PBG	3C0X	臣
3	99.i	1.46	1.50	2.04	1.55	2.60	2.89	2.21	1.99	1.86	1.45	1.51	1.48	1.79	1.61	1.26	i.56	i.35	99'.	1.20	1.83	1.43	j.47	2.03	1.36
7.	1.56	1.29	1.31	1.93	1.40	2.40	2.48	2.16	i.87	1.75	i.25	1.34	1.18	1.50	1.19	1.14	1.13	j.12	1.56	1.13	1.44	1.13	i.23	7.00	1.18
	0.795	0.788	0.776	0.669	0.700	0.575	0.517	0.653	0.686	0.682	0.800	0.757	0.737	0.608	0.676	0.825	0.670	0.795	0.762	0.742	0.666	0.632	0.722	0.669	0.783
	0.852	0.830	0.821	0.782	0.769	0.752	0.702	0.815	0.783	0.792	0.831	0.788	0.780	0.689	0.728	0.847	0.724	0.818	0.817	0,763	0.704	0.670	0.759	0.765	0.805
NUMBER	96	105	108	115	116	116	120	123	123	129	122	141	145	147	151	151	153	154	160	166	170	186	195	206	206
	1CDZ	2RAC	1,00	1NEU	1DLW	180	1DZ0	10TS	1A4V	3LZT	1PD0	SNSZ	1AT0	1H97	1A6M	1118	1002	1PHR	1CZ1	121P	1E6C	16KY	2KFZ	10ZV	10CH
	NUMBER CERT COLOR ST. S.	96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.644 1.03	96 0.852 0.795 1.56 1.60 1AUN 208 0.672 0.644 1.03 1.05 0.830 0.788 1.29 1.46 1LBU 213 0.632 0.566 1.70	96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.566 1.70 1.03 1.08 0.821 0.776 1.31 1.50 1.74L 216 0.756 0.685 1.58	96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.644 1.03 105 0.830 0.788 1.29 1.46 1LBU 213 0.652 0.566 1.70 108 0.821 0.776 1.31 1.50 1YAL 216 0.756 0.685 1.58 115 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58	96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.644 1.03 1.05 0.830 0.776 1.31 1.50 1.74 2ACT 218 0.744 0.657 1.58 1.29 1.40 1.55 1.50 0.774 0.685 1.38 1.59 1.40 1.55 1.58 1.59 0.774 0.685 1.38 1.59 1.40 1.55 1.58 1.59 1.60 0.734 0.686 1.28	96 0.852 0.795 1.56 1.60 1AUN 208 0.672 0.644 1.03 1.05 1.05 0.830 0.776 1.31 1.50 1.74 2.718 0.774 0.685 1.58 1.59 1.60 0.775 0.776 1.31 2.04 2.40 2.60 1.40 1.55 1.60 0.756 0.736 0.677 1.33	96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.644 1.03 1.05 1.05 0.830 0.788 1.29 1.46 1LBU 213 0.652 0.566 1.70 1.58 1.59 1.93 2.04 2ACT 218 0.756 0.685 1.58 1.58 1.60 0.769 0.700 1.40 1.55 1EUG 219 0.734 0.686 1.28 1.28 1.20 0.702 0.517 2.48 2.89 10DH 228 0.760 0.703 1.39	96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.644 1.03 1.05 0.830 0.788 1.29 1.46 1LBU 213 0.632 0.566 1.70 1.70 1.50 0.782 0.685 1.58 1.50 1.74 2.74 0.657 1.58 1.59 1.70 0.752 0.754 0.685 1.28 1.29 1.00H 228 0.756 0.703 1.39 1.20 0.702 0.517 2.48 2.89 1UDH 245 0.744 0.774 0.712 1.11	96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.644 1.03 1.05 0.830 0.778 1.29 1.46 1LBU 213 0.632 0.566 1.70 0.782 0.776 1.31 1.50 1.74 2ACT 218 0.744 0.657 1.58 1.29 1.46 0.752 0.774 0.657 1.58 1.29 1.40 1.55 1EUG 219 0.774 0.686 1.28 1.29 1.00H 228 0.756 0.677 1.33 1.20 0.702 0.517 2.48 2.89 1UDH 228 0.760 0.703 1.39 1.21 1.23 0.783 0.686 1.87 1.99 1.66V 256 0.754 0.755 1.21	96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.644 1.03 105 0.830 0.788 1.29 1.46 1LBU 213 0.652 0.566 1.70 108 0.821 0.776 1.31 1.50 1/4LBU 213 0.652 0.666 1.70 115 0.782 0.776 1.31 1.50 1/4LBU 216 0.756 0.685 1.58 115 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.7769 0.770 1.40 1.55 1EUG 219 0.744 0.657 1.33 120 0.775 2.40 2.60 1AKZ 223 0.736 0.677 1.39 120 0.770 0.517 2.48 2.89 1UDH 228 0.776 0.773 1.11 123 0.783 0.686 1.87 1.99 166	96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.644 1.03 105 0.830 0.788 1.29 1.46 1LBU 213 0.652 0.566 1.70 108 0.821 0.776 1.31 1.50 1YAL 216 0.756 0.685 1.58 115 0.782 0.669 1.93 2.04 2ACT 216 0.756 0.685 1.58 115 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.685 1.58 116 0.782 0.669 1.93 2.04 2ACT 218 0.734 0.685 1.28 116 0.752 0.752 2.40 2.60 1AKZ 223 0.736 0.677 1.39 120 0.702 0.517 2.48 2.89 1UDH 228 0.760 0.774 0.712 1.11 123 0.783 0.686 1.87 </td <td>96 0.852 0.795 i.56 i.66 I AUN 208 0.672 0.644 1.03 105 0.830 0.778 1.29 i.46 ILBU 213 0.632 0.566 1.70 108 0.821 0.776 1.31 1.50 1YAL 216 0.756 0.685 1.58 115 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.776 0.783 0.769 0.700 1.40 1.55 1EUG 219 0.744 0.657 1.38 120 0.772 2.40 2.60 1.4KZ 223 0.756 0.677 1.39 123 0.783 0.653 2.16 2.21 1TPH 245 0.744 0.774 0.773 1.11 123 0.783 0.68</td> <td>96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.644 1.03 105 0.830 0.788 1.29 1.46 1LBU 213 0.652 0.566 1.70 108 0.821 0.776 1.31 1.50 1YAL 216 0.756 0.685 1.58 115 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.752 0.700 1.40 1.55 1EUG 219 0.734 0.686 1.28 120 0.772 2.48 2.89 1UDH 228 0.760 0.775 0.712 1.11 123 0.783 0.686 1.87 1.99 1.66V 256 0.754 0.775 0.712 1.11 123 0.783 0.682 1.75<</td> <td>96 0.852 0.795 1.56 1.66 1 AUN 208 0.672 0.644 1.03 105 0.832 0.788 1.29 1.46 1LBU 213 0.652 0.566 1.70 108 0.821 0.776 1.31 1.50 1YAL 216 0.756 0.685 1.58 115 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.782 0.669 1.93 2.04 2ACT 219 0.744 0.657 1.58 116 0.775 0.776 0.750 1.40 1.55 1EUG 223 0.734 0.657 1.28 120 0.772 0.575 2.40 2.60 1AKZ 223 0.750 0.703 1.39 123 0.781 0.653 2.16 2.21 1TPH 245 0.744 0.772 1.11 123 0.782 0.686 1.87<</td> <td>NUMBER CLSS 0.795 1.56 1.60 1AUN 208 0.672 0.644 1.03 105 0.852 0.795 1.56 1.46 1LBU 213 0.652 0.666 1.70 108 0.821 0.776 1.31 1.50 1YAL 216 0.756 0.685 1.58 115 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.772 0.769 0.700 1.40 1.55 1EUG 219 0.754 0.686 1.29 120 0.772 0.772 1.78 1.00H 228 0.760 0.703 1.21 123 0.783 0.685 1.86 1.87 1.99 1.66V 256 0.744 0.735 1.21 123 0.783 0.683 1</td> <td>NUMBER CORST O.852 O.795 I.56 I.60 IAUN Z08 O.672 O.644 I.03 105 0.832 0.788 1.29 I.46 ILBU Z13 0.652 0.566 I.70 108 0.830 0.778 1.29 I.46 ILBU Z13 0.652 0.566 I.70 108 0.821 0.776 1.31 I.50 IYAL Z16 0.756 0.667 I.56 I.70 115 0.782 0.669 1.93 2.04 ZACT Z18 0.744 0.657 I.58 116 0.752 0.750 1.40 I.55 IEUG Z19 0.734 0.667 I.39 120 0.702 0.517 2.48 2.89 IUDH 228 0.750 0.775 1.11 123 0.783 0.686 I.87 I.99 IG6V 256 0.754 0.735 0.748 122 0.783 0.</td> <td>96 0.852 0.795 1.56 1.60 1AUN 208 0.672 0.644 1.03 105 0.832 0.788 1.29 1.46 1LBU 213 0.652 0.566 1.70 108 0.821 0.778 1.29 1.46 1LBU 213 0.652 0.566 1.70 115 0.821 0.778 1.50 174 216 0.756 0.685 1.58 116 0.7782 0.669 1.93 1.60 174 0.657 1.58 116 0.7762 0.776 1.55 1EUC 218 0.734 0.686 1.78 116 0.775 0.775 1.40 1.55 1EUC 223 0.734 0.686 1.39 120 0.775 2.40 2.60 1AKZ 223 0.750 0.773 0.719 1.21 123 0.781 0.682 1.87 1.99 1.66V 256 0.744 0.774<</td> <td>96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.644 1.03 105 0.830 0.778 1.56 1.66 1AUN 208 0.672 0.644 1.03 105 0.830 0.778 1.51 1.50 17AL 216 0.675 0.685 1.58 115 0.782 0.776 1.31 1.50 17AL 216 0.756 0.685 1.58 116 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.772 0.575 2.40 2.60 1AKZ 223 0.756 0.686 1.28 120 0.772 0.575 2.40 2.60 1AKZ 223 0.756 0.677 1.33 120 0.772 0.575 2.48 2.89 1UDH 228 0.760 0.774 0.712 1.11 123 0.783 0.685 1.75<!--</td--><td>96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.664 1.03 105 0.830 0.788 1.29 1.46 11BU 213 0.632 0.566 1.70 108 0.821 0.776 1.31 1.50 17AL 216 0.756 0.566 1.70 115 0.782 0.669 1.93 2.04 2ACT 218 0.756 0.566 1.70 116 0.7782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.7752 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 120 0.7752 0.6757 2.48 2.89 1UDH 228 0.744 0.775 1.51 123 0.782 0.686 1.87 1.99 1.68 1.80 1.80 1.81 1.81 1.81 1.81 1.81 1.81 1.81 1.</td><td> NUMBER N</td><td>96 0.852 0.795 1.56 1.66 IAUN 208 0.672 0.644 1.03 105 0.830 0.788 1.29 1.46 11BU 213 0.632 0.566 1.70 108 0.820 0.776 1.31 1.50 17AL 216 0.756 0.685 1.58 115 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.685 1.58 116 0.772 0.699 1.40 1.55 1EUC 218 0.744 0.686 1.38 120 0.772 0.40 2.60 1.47 2.28 0.744 0.686 1.39 120 0.772 2.48 2.89 10DH 228 0.744 0.715 1.39 123 0.782 0.686 1.87 1.99 1.66V 2.56 0.744 0.715 0.715 0.711 123 0.782 0.686 1.87 1.99 1.66</td><td>96 0.852 0.795 1.56 IAMN 208 0.672 0.644 1.03 105 0.830 0.778 1.29 1.46 11BU 213 0.652 0.566 1.70 105 0.830 0.778 1.29 1.46 11BU 213 0.652 0.566 1.70 115 0.782 0.776 1.31 1.50 1YAL 216 0.756 0.685 1.58 116 0.772 0.689 1.93 2.04 2ACT 218 0.734 0.685 1.58 116 0.752 0.575 2.40 2.60 1AKZ 223 0.734 0.686 1.29 120 0.772 1.40 2.60 1AKZ 223 0.736 0.737 1.39 123 0.817 2.40 2.60 1AKZ 223 0.776 0.733 0.773 0.773 0.774 0.773 0.774 0.773 0.774 0.774 0.774 <t< td=""><td>96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.644 1.03 1.05 0.830 0.788 1.29 1.46 1LBU 213 0.632 0.566 1.70 0.830 0.788 1.29 1.46 1LBU 213 0.632 0.566 1.70 0.72 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 1.15 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.7</td><td>96 0.852 0.795 1.56 1.66 14UN 208 0.672 0.644 1.03 1.05 1.05 0.820 0.788 1.29 1.46 11BU 213 0.652 0.566 1.70 1.05 1.08 0.821 0.776 1.31 1.50 1.74 0.655 0.685 1.58 1.15 0.782 0.567 1.33 1.20 1.40 1.40 1.52 0.744 0.657 1.33 1.20 0.772 0.575 2.40 2.60 1.40 1.52 1.00 1.40 1.52 0.734 0.686 1.70 1.33 1.20 0.772 0.517 2.48 2.89 1.00H 228 0.744 0.775 1.33 1.22 0.783 0.683 1.20 1.79 1.24 2.89 1.00H 228 0.744 0.775 1.13 1.24 0.831 0.800 1.25 1.45 2.081 2.71 0.647 0.735 1.12 1.22 0.831 0.800 0.737 1.18 1.48 1.40 1.25 1.45 2.081 2.20 0.657 1.38 1.40 1.41 0.788 0.757 1.18 1.48 1.48 1.40 1.15 0.689 0.670 1.19 1.60 1.75 0.831 0.728 0.675 1.11 1.60 1.72 0.831 0.728 0.676 1.19 1.61 1.52 0.728 0.676 1.19 1.61 1.55 1.45 2.081 0.600 0.623 0.641 1.40 1.55 0.728 0.676 1.19 1.60 1.72 0.831 0.728 0.676 1.19 1.61 1.52 0.728 0.676 1.19 1.61 1.55 0.728 0.676 1.19 1.61 1.55 0.728 0.675 0.735 0.735 0.735 0.744 0.778 0.831 0.762 0.676 1.19 1.60 0.744 0.758 0.650 0.744 0.756 0.676 1.19 1.60 0.728 0.676 1.19 1.60 0.728 0.744 0.756 0.655 0.745 0.756</td></t<></td></td>	96 0.852 0.795 i.56 i.66 I AUN 208 0.672 0.644 1.03 105 0.830 0.778 1.29 i.46 ILBU 213 0.632 0.566 1.70 108 0.821 0.776 1.31 1.50 1YAL 216 0.756 0.685 1.58 115 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.776 0.783 0.769 0.700 1.40 1.55 1EUG 219 0.744 0.657 1.38 120 0.772 2.40 2.60 1.4KZ 223 0.756 0.677 1.39 123 0.783 0.653 2.16 2.21 1TPH 245 0.744 0.774 0.773 1.11 123 0.783 0.68	96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.644 1.03 105 0.830 0.788 1.29 1.46 1LBU 213 0.652 0.566 1.70 108 0.821 0.776 1.31 1.50 1YAL 216 0.756 0.685 1.58 115 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.752 0.700 1.40 1.55 1EUG 219 0.734 0.686 1.28 120 0.772 2.48 2.89 1UDH 228 0.760 0.775 0.712 1.11 123 0.783 0.686 1.87 1.99 1.66V 256 0.754 0.775 0.712 1.11 123 0.783 0.682 1.75<	96 0.852 0.795 1.56 1.66 1 AUN 208 0.672 0.644 1.03 105 0.832 0.788 1.29 1.46 1LBU 213 0.652 0.566 1.70 108 0.821 0.776 1.31 1.50 1YAL 216 0.756 0.685 1.58 115 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.782 0.669 1.93 2.04 2ACT 219 0.744 0.657 1.58 116 0.775 0.776 0.750 1.40 1.55 1EUG 223 0.734 0.657 1.28 120 0.772 0.575 2.40 2.60 1AKZ 223 0.750 0.703 1.39 123 0.781 0.653 2.16 2.21 1TPH 245 0.744 0.772 1.11 123 0.782 0.686 1.87<	NUMBER CLSS 0.795 1.56 1.60 1AUN 208 0.672 0.644 1.03 105 0.852 0.795 1.56 1.46 1LBU 213 0.652 0.666 1.70 108 0.821 0.776 1.31 1.50 1YAL 216 0.756 0.685 1.58 115 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.772 0.769 0.700 1.40 1.55 1EUG 219 0.754 0.686 1.29 120 0.772 0.772 1.78 1.00H 228 0.760 0.703 1.21 123 0.783 0.685 1.86 1.87 1.99 1.66V 256 0.744 0.735 1.21 123 0.783 0.683 1	NUMBER CORST O.852 O.795 I.56 I.60 IAUN Z08 O.672 O.644 I.03 105 0.832 0.788 1.29 I.46 ILBU Z13 0.652 0.566 I.70 108 0.830 0.778 1.29 I.46 ILBU Z13 0.652 0.566 I.70 108 0.821 0.776 1.31 I.50 IYAL Z16 0.756 0.667 I.56 I.70 115 0.782 0.669 1.93 2.04 ZACT Z18 0.744 0.657 I.58 116 0.752 0.750 1.40 I.55 IEUG Z19 0.734 0.667 I.39 120 0.702 0.517 2.48 2.89 IUDH 228 0.750 0.775 1.11 123 0.783 0.686 I.87 I.99 IG6V 256 0.754 0.735 0.748 122 0.783 0.	96 0.852 0.795 1.56 1.60 1AUN 208 0.672 0.644 1.03 105 0.832 0.788 1.29 1.46 1LBU 213 0.652 0.566 1.70 108 0.821 0.778 1.29 1.46 1LBU 213 0.652 0.566 1.70 115 0.821 0.778 1.50 174 216 0.756 0.685 1.58 116 0.7782 0.669 1.93 1.60 174 0.657 1.58 116 0.7762 0.776 1.55 1EUC 218 0.734 0.686 1.78 116 0.775 0.775 1.40 1.55 1EUC 223 0.734 0.686 1.39 120 0.775 2.40 2.60 1AKZ 223 0.750 0.773 0.719 1.21 123 0.781 0.682 1.87 1.99 1.66V 256 0.744 0.774<	96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.644 1.03 105 0.830 0.778 1.56 1.66 1AUN 208 0.672 0.644 1.03 105 0.830 0.778 1.51 1.50 17AL 216 0.675 0.685 1.58 115 0.782 0.776 1.31 1.50 17AL 216 0.756 0.685 1.58 116 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.772 0.575 2.40 2.60 1AKZ 223 0.756 0.686 1.28 120 0.772 0.575 2.40 2.60 1AKZ 223 0.756 0.677 1.33 120 0.772 0.575 2.48 2.89 1UDH 228 0.760 0.774 0.712 1.11 123 0.783 0.685 1.75 </td <td>96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.664 1.03 105 0.830 0.788 1.29 1.46 11BU 213 0.632 0.566 1.70 108 0.821 0.776 1.31 1.50 17AL 216 0.756 0.566 1.70 115 0.782 0.669 1.93 2.04 2ACT 218 0.756 0.566 1.70 116 0.7782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.7752 0.669 1.93 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1.72 0.831 0.728 0.676 1.19 1.61 1.52 0.728 0.676 1.19 1.61 1.55 1.45 2.081 0.600 0.623 0.641 1.40 1.55 0.728 0.676 1.19 1.60 1.72 0.831 0.728 0.676 1.19 1.61 1.52 0.728 0.676 1.19 1.61 1.55 0.728 0.676 1.19 1.61 1.55 0.728 0.675 0.735 0.735 0.735 0.744 0.778 0.831 0.762 0.676 1.19 1.60 0.744 0.758 0.650 0.744 0.756 0.676 1.19 1.60 0.728 0.676 1.19 1.60 0.728 0.744 0.756 0.655 0.745 0.756</td></t<></td>	96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.664 1.03 105 0.830 0.788 1.29 1.46 11BU 213 0.632 0.566 1.70 108 0.821 0.776 1.31 1.50 17AL 216 0.756 0.566 1.70 115 0.782 0.669 1.93 2.04 2ACT 218 0.756 0.566 1.70 116 0.7782 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 116 0.7752 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 120 0.7752 0.6757 2.48 2.89 1UDH 228 0.744 0.775 1.51 123 0.782 0.686 1.87 1.99 1.68 1.80 1.80 1.81 1.81 1.81 1.81 1.81 1.81 1.81 1.	NUMBER N	96 0.852 0.795 1.56 1.66 IAUN 208 0.672 0.644 1.03 105 0.830 0.788 1.29 1.46 11BU 213 0.632 0.566 1.70 108 0.820 0.776 1.31 1.50 17AL 216 0.756 0.685 1.58 115 0.782 0.669 1.93 2.04 2ACT 218 0.744 0.685 1.58 116 0.772 0.699 1.40 1.55 1EUC 218 0.744 0.686 1.38 120 0.772 0.40 2.60 1.47 2.28 0.744 0.686 1.39 120 0.772 2.48 2.89 10DH 228 0.744 0.715 1.39 123 0.782 0.686 1.87 1.99 1.66V 2.56 0.744 0.715 0.715 0.711 123 0.782 0.686 1.87 1.99 1.66	96 0.852 0.795 1.56 IAMN 208 0.672 0.644 1.03 105 0.830 0.778 1.29 1.46 11BU 213 0.652 0.566 1.70 105 0.830 0.778 1.29 1.46 11BU 213 0.652 0.566 1.70 115 0.782 0.776 1.31 1.50 1YAL 216 0.756 0.685 1.58 116 0.772 0.689 1.93 2.04 2ACT 218 0.734 0.685 1.58 116 0.752 0.575 2.40 2.60 1AKZ 223 0.734 0.686 1.29 120 0.772 1.40 2.60 1AKZ 223 0.736 0.737 1.39 123 0.817 2.40 2.60 1AKZ 223 0.776 0.733 0.773 0.773 0.774 0.773 0.774 0.773 0.774 0.774 0.774 <t< td=""><td>96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.644 1.03 1.05 0.830 0.788 1.29 1.46 1LBU 213 0.632 0.566 1.70 0.830 0.788 1.29 1.46 1LBU 213 0.632 0.566 1.70 0.72 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 1.15 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.7</td><td>96 0.852 0.795 1.56 1.66 14UN 208 0.672 0.644 1.03 1.05 1.05 0.820 0.788 1.29 1.46 11BU 213 0.652 0.566 1.70 1.05 1.08 0.821 0.776 1.31 1.50 1.74 0.655 0.685 1.58 1.15 0.782 0.567 1.33 1.20 1.40 1.40 1.52 0.744 0.657 1.33 1.20 0.772 0.575 2.40 2.60 1.40 1.52 1.00 1.40 1.52 0.734 0.686 1.70 1.33 1.20 0.772 0.517 2.48 2.89 1.00H 228 0.744 0.775 1.33 1.22 0.783 0.683 1.20 1.79 1.24 2.89 1.00H 228 0.744 0.775 1.13 1.24 0.831 0.800 1.25 1.45 2.081 2.71 0.647 0.735 1.12 1.22 0.831 0.800 0.737 1.18 1.48 1.40 1.25 1.45 2.081 2.20 0.657 1.38 1.40 1.41 0.788 0.757 1.18 1.48 1.48 1.40 1.15 0.689 0.670 1.19 1.60 1.75 0.831 0.728 0.675 1.11 1.60 1.72 0.831 0.728 0.676 1.19 1.61 1.52 0.728 0.676 1.19 1.61 1.55 1.45 2.081 0.600 0.623 0.641 1.40 1.55 0.728 0.676 1.19 1.60 1.72 0.831 0.728 0.676 1.19 1.61 1.52 0.728 0.676 1.19 1.61 1.55 0.728 0.676 1.19 1.61 1.55 0.728 0.675 0.735 0.735 0.735 0.744 0.778 0.831 0.762 0.676 1.19 1.60 0.744 0.758 0.650 0.744 0.756 0.676 1.19 1.60 0.728 0.676 1.19 1.60 0.728 0.744 0.756 0.655 0.745 0.756</td></t<>	96 0.852 0.795 1.56 1.66 1AUN 208 0.672 0.644 1.03 1.05 0.830 0.788 1.29 1.46 1LBU 213 0.632 0.566 1.70 0.830 0.788 1.29 1.46 1LBU 213 0.632 0.566 1.70 0.72 0.669 1.93 2.04 2ACT 218 0.744 0.657 1.58 1.15 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.7	96 0.852 0.795 1.56 1.66 14UN 208 0.672 0.644 1.03 1.05 1.05 0.820 0.788 1.29 1.46 11BU 213 0.652 0.566 1.70 1.05 1.08 0.821 0.776 1.31 1.50 1.74 0.655 0.685 1.58 1.15 0.782 0.567 1.33 1.20 1.40 1.40 1.52 0.744 0.657 1.33 1.20 0.772 0.575 2.40 2.60 1.40 1.52 1.00 1.40 1.52 0.734 0.686 1.70 1.33 1.20 0.772 0.517 2.48 2.89 1.00H 228 0.744 0.775 1.33 1.22 0.783 0.683 1.20 1.79 1.24 2.89 1.00H 228 0.744 0.775 1.13 1.24 0.831 0.800 1.25 1.45 2.081 2.71 0.647 0.735 1.12 1.22 0.831 0.800 0.737 1.18 1.48 1.40 1.25 1.45 2.081 2.20 0.657 1.38 1.40 1.41 0.788 0.757 1.18 1.48 1.48 1.40 1.15 0.689 0.670 1.19 1.60 1.75 0.831 0.728 0.675 1.11 1.60 1.72 0.831 0.728 0.676 1.19 1.61 1.52 0.728 0.676 1.19 1.61 1.55 1.45 2.081 0.600 0.623 0.641 1.40 1.55 0.728 0.676 1.19 1.60 1.72 0.831 0.728 0.676 1.19 1.61 1.52 0.728 0.676 1.19 1.61 1.55 0.728 0.676 1.19 1.61 1.55 0.728 0.675 0.735 0.735 0.735 0.744 0.778 0.831 0.762 0.676 1.19 1.60 0.744 0.758 0.650 0.744 0.756 0.676 1.19 1.60 0.728 0.676 1.19 1.60 0.728 0.744 0.756 0.655 0.745 0.756

FIG. 4



4/7 YOR920030162US1 REPLACEMENT SHEET

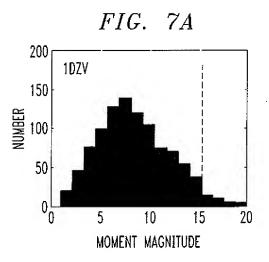
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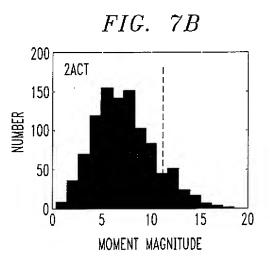
<u></u>																									-
MEAN HYDROPHOBICI	-0.122	-0.135	-0.158	-0.092	-0.064	-0.105	-0.065	-0.109	-0.154	-0.158	-0.145	-0.134	-0.131	-0.039	-0.089	-0.118	-0.104	-0.117	-0.124	-0.087	-0.114	-0.100	-0.121	-0.120	-0.129
NUMBER GREATER	898	878	565	112	695	989	605	491	260	623	943	9	975	65	784	281	412	725	937	880	522	296	544	908	267
RANDOM MAGNITUDE	6.54	6.82	7.32	7.29	7.41	7.59	7.39	7.00	7.71	7.62	8.86	7.86	6.57	7.90	7.48	8.88	8.27	7.44	6.73	7.23	6.07	6.40	6.34	6.95	7.60
MOMENT MAGNITUDE	3.57	3.49	6.58	11.20	5.51	i.58	6.34	6.92	6.93	6.38	3.26	17.09	1.83	13.81	4.83	11.05	8.84	5.44	2.78	3.67	5.79	7.75	5.82	4.32	6.92
PROTEIN	1AUN	1LBU	1YAL	2ACT	1EUG	1AKZ	100H	TPH	166V	1BN1	20RI	1AUA	1A3H	· 1LDM	1FSZ	1KFU	1UBY	1A26	1CIN	1PHC	1GAI	1BGV	3PBG	3C0X	1EH
MEAN HYDROPHOBICITY	-0.083	-0.090	-0.222	-0.083	-0.044	-0.164	-0.224	-0.063	-0.089	-0.139	-0.047	-0.227	690'0-	-0.110	-0.117	-0.150	-0.122	-0.121	-0.120	-0.134	-0.054	-0.170	960.0-	-0.042	-0.094
NUMBER GREATER	765	864	580	575	677	869	762	977	533	269	414	671	242	831	943	915	922	770	395	478	366	332	594	40	232
RANDOM MAGNITUDE	9.49	7.91	8.71	10.24	7.68	10.18	9.80	10.66	10.64	8.43	8.40	8.15	8.02	8.94	8.73	8.76	8.47	8.04	9.16	7.80	8.71	8.43	8.07	8.41	7.90
MOMENT MAGNITUDE	6.16	4.24	7.62	8.91	5.97	5.13	6.29	3.13	9.95	10.35	8.87	6.31	10.11	5.22	3.41	3.92	3.79	5.20	9.91	2.68	9.54	9.63	6.82	15.31	10.39
PROTEIN	1CDZ	2RAC	1,00		10LW	1BL0	1020	1015	1A4V	3LZT	1900	2SNS	1AT0	1H97	1A6M	1118	1002	】	1CZ1	121P	1560	-lek	2KFZ	1027	10CH

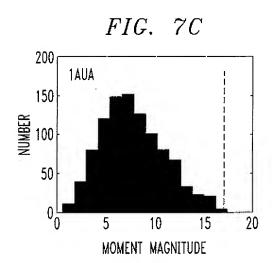
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FIG. 6
NEUMAIER HYDROPHOBICITY SCALE

AMINO ACID	HYDROPHOBICITY	AMINO ACID	HYDROPHOBICITY
LYS	-1.00	HIS	-015
ASP	-0.97	ALA	-0.06
GLU	-0.85	TYR	035
ARG	-0.80	CYS	056
GLN	-0.71	TRP	0.57
ASN	-070	MET	0.68
SER	-0.48	VAL	0.75
PRO	-0.45	LEU	0.83
THR	-0.38	PHE	0.99
GLY	-0.32	ILE	1.00







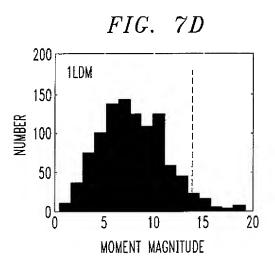


FIG. 8

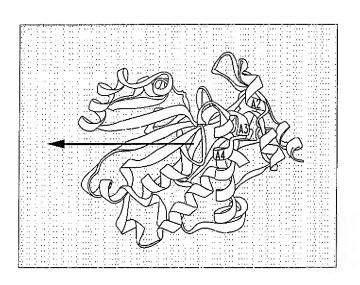


FIG. 9

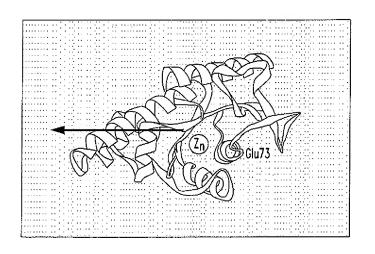


FIG. 10

DEFENSIN AND DEFENSIN LIKE MOMENT MAGNITUDES AND MEAN HYDROPHOBICITIES

PROTEIN	MOMENT MAGNITUDE	RANDOM MAGNITUDE	NUMBER GREATER	MEAN HYDOPHOBICITY	g ₂	9ź
1AHL	16.86	909	24	-0.089	1.85	202
1APF	23.16	10.55	31	-0.100	120	2.66
1B8W	15.79	18.98	539	-0.182	1.97	5.34
1BNB	13,58	17.00	615	-0.001	3.13	4.96
1DFN	3.34	9.25	955	0.070	2 29	244
1FD3	5.74	935	806	-0.079	197	236
1FJN	7.02	12.37	745	-0.076	1.64	3.96
1SH1	36.35	13.60	9	-0.184	1.98	3.60

FIG. 11A

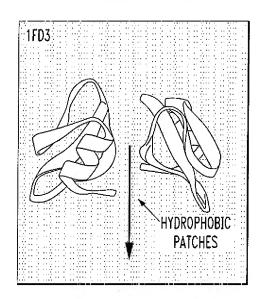


FIG. 11B

